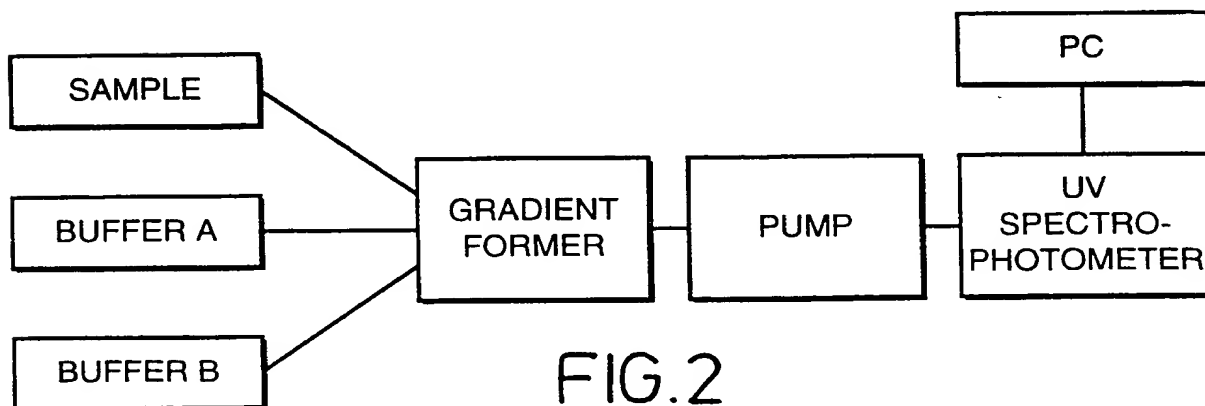
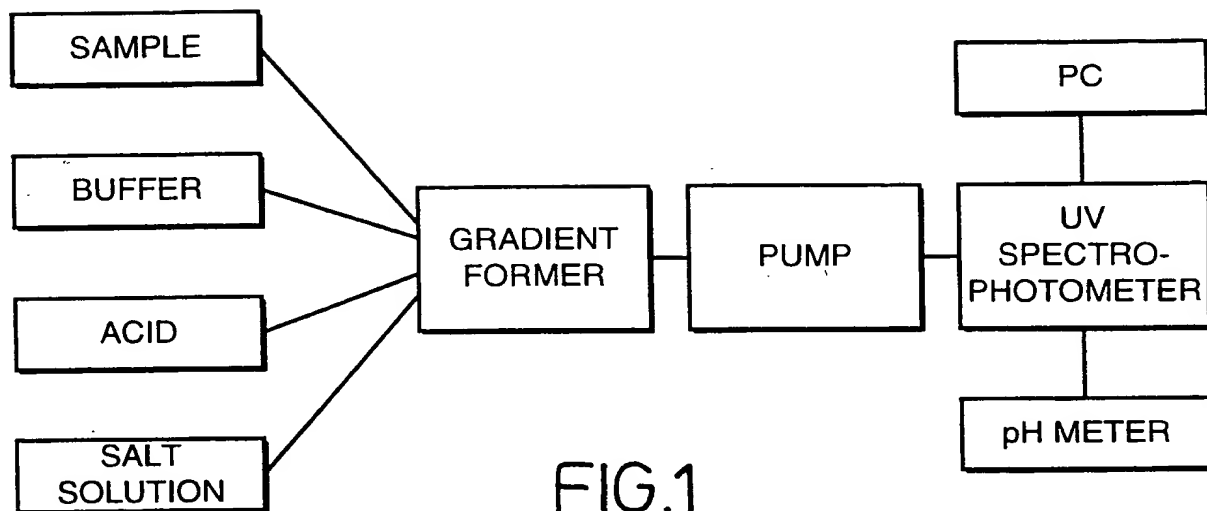


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PLUMBING DIAGRAM

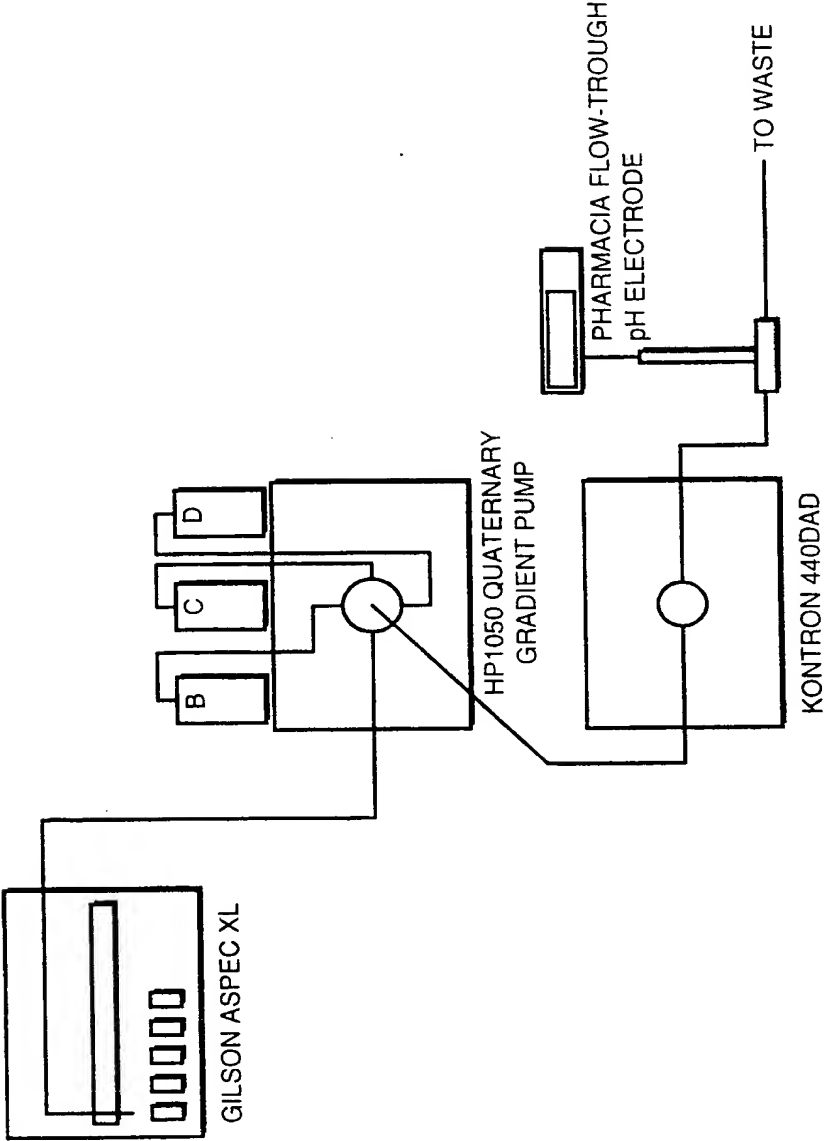


FIG.3

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ELECTRICAL CONNECTIONS 1: OUTLINE

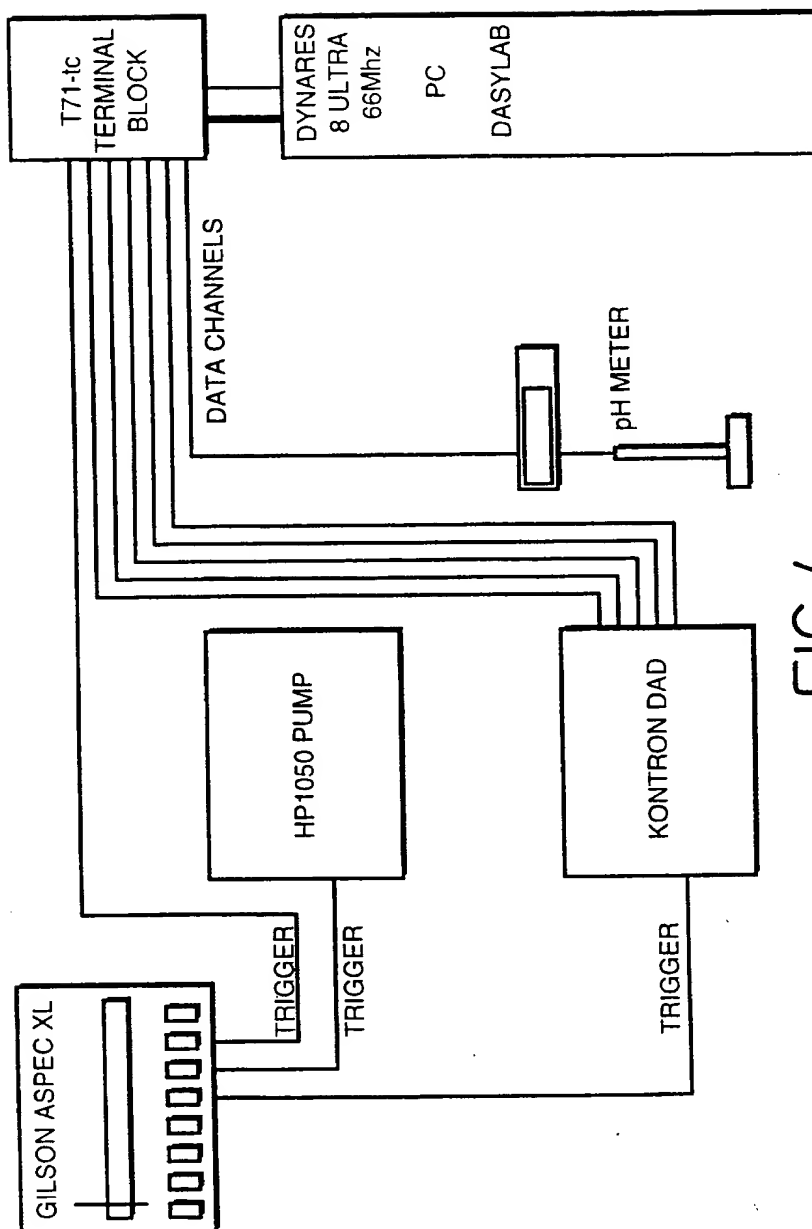


FIG. 4

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ELECTRICAL CONNECTIONS 2: TRIGGER EVENTS

GILSON XL RELAY OUTPUTS

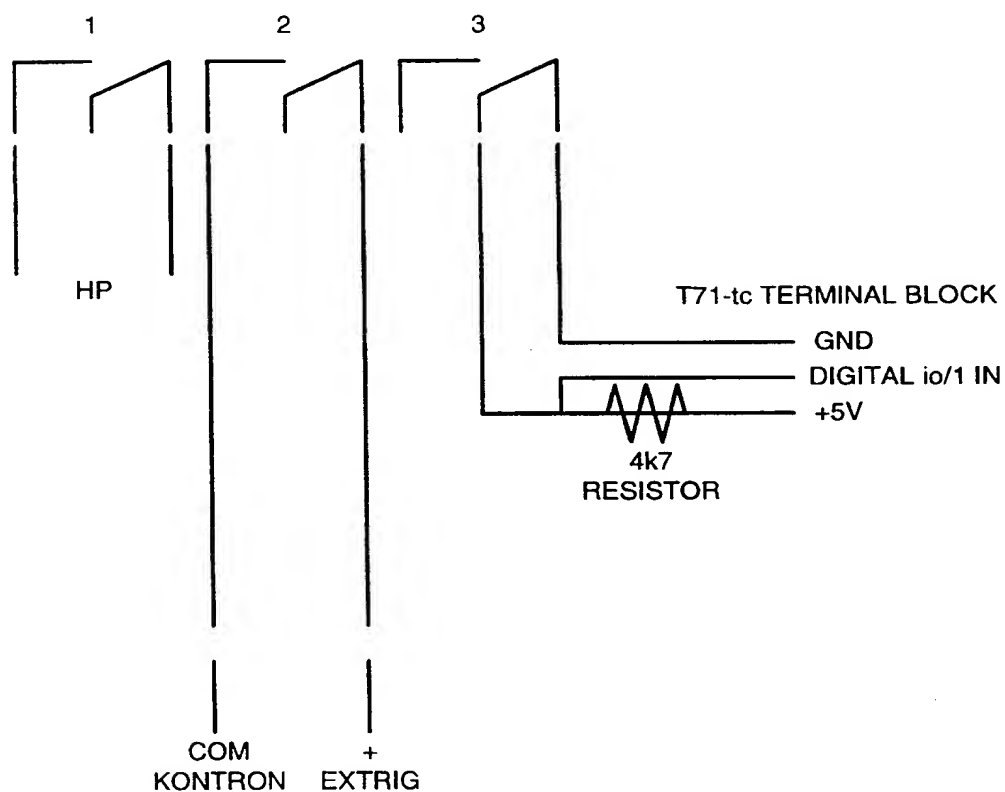


FIG.5

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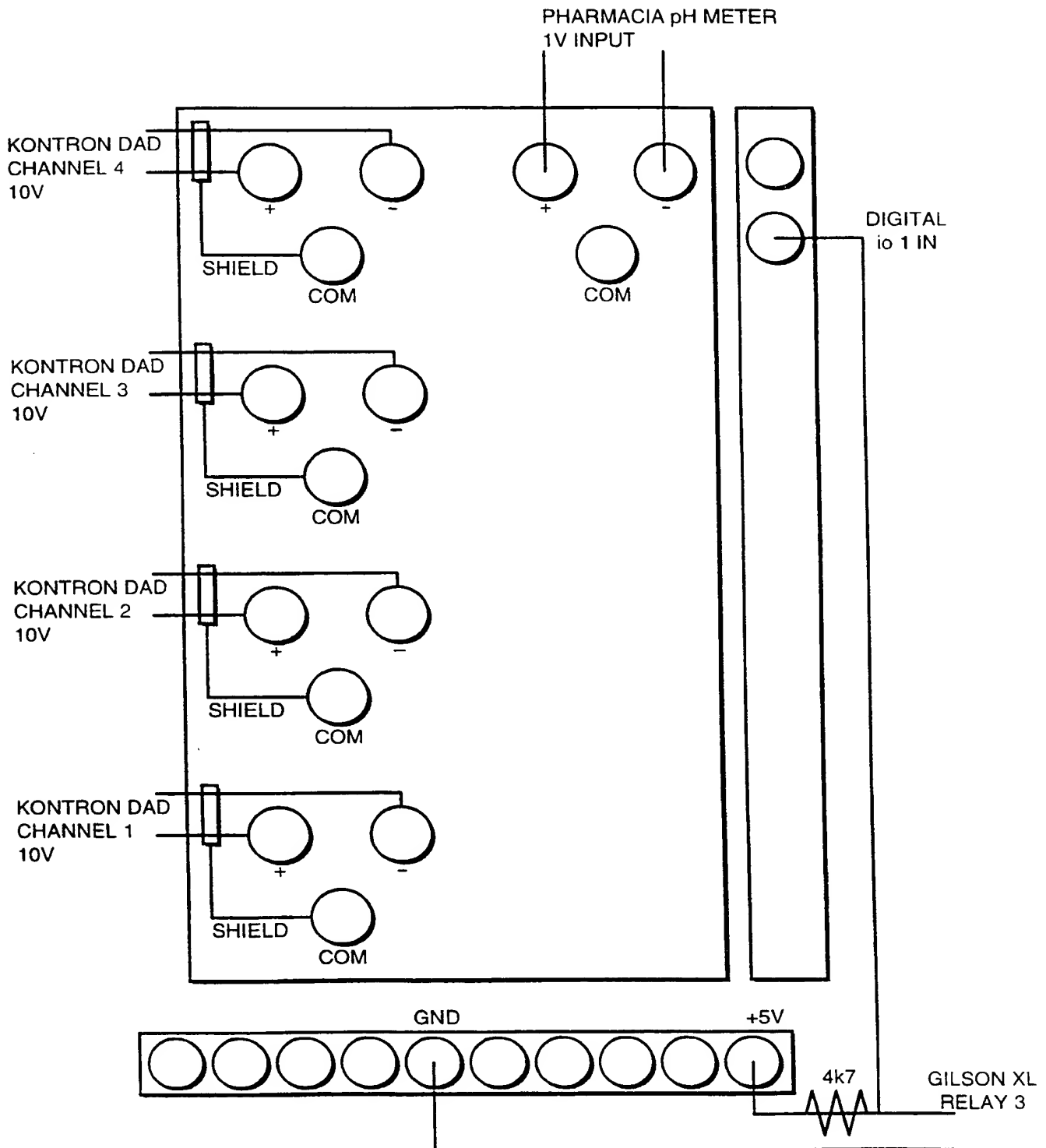


FIG.6

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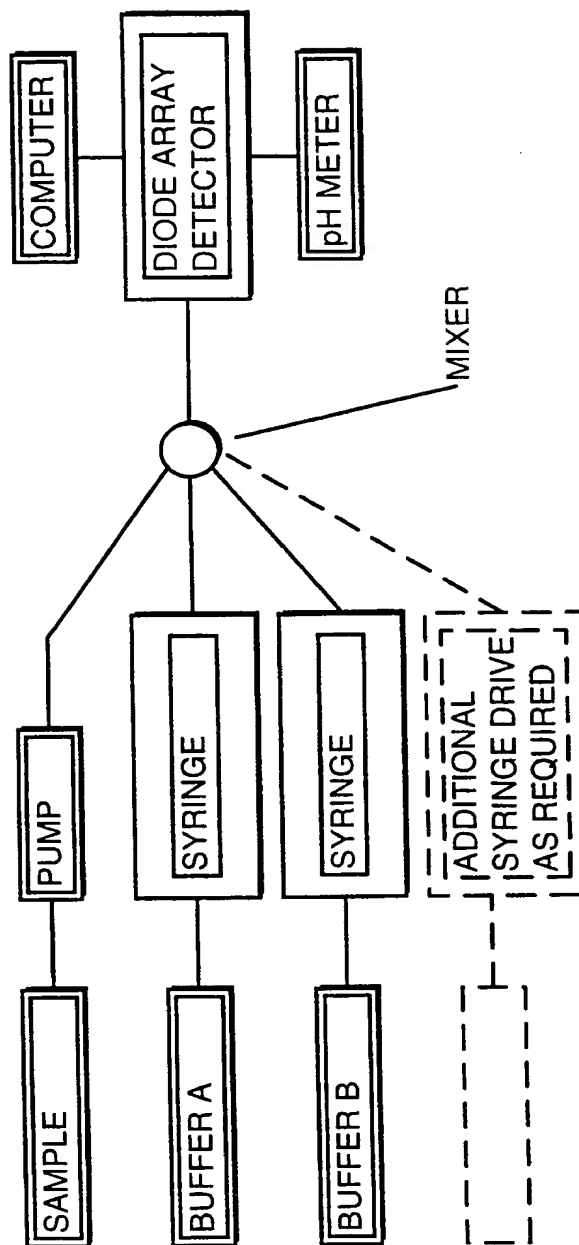
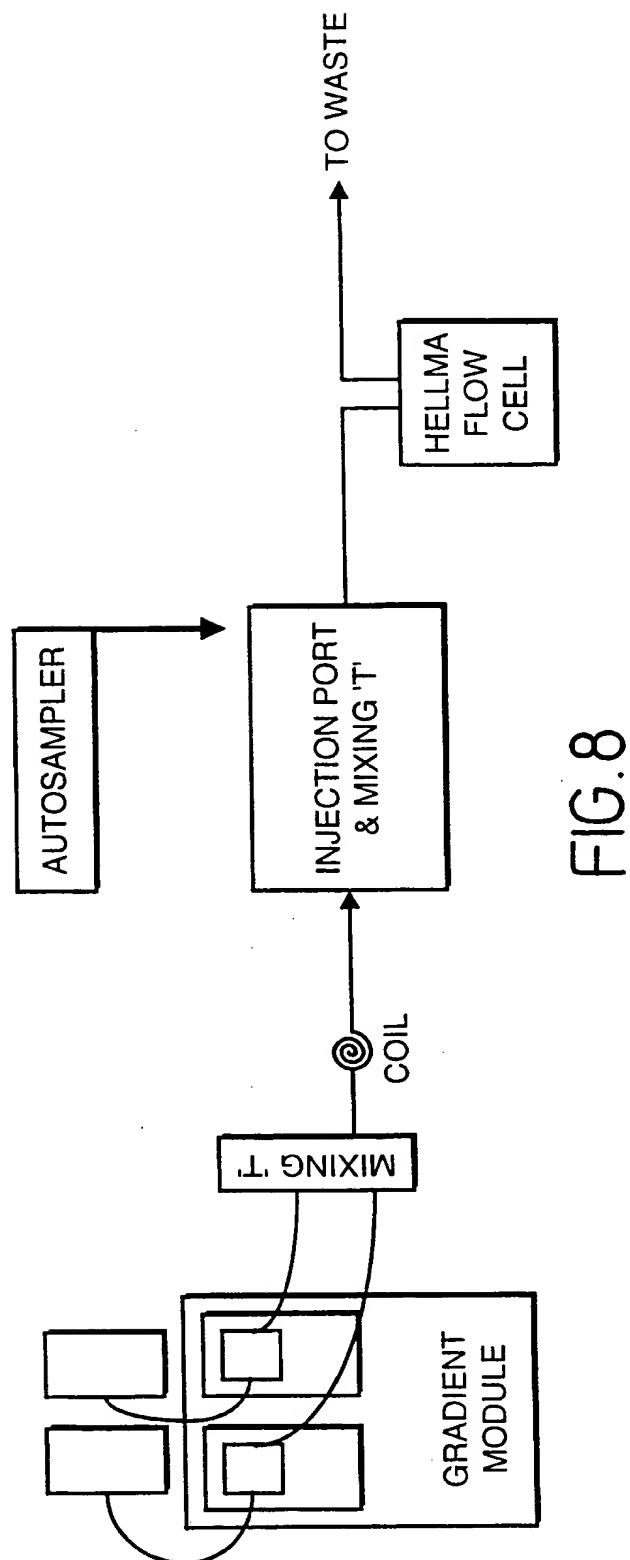


FIG. 7

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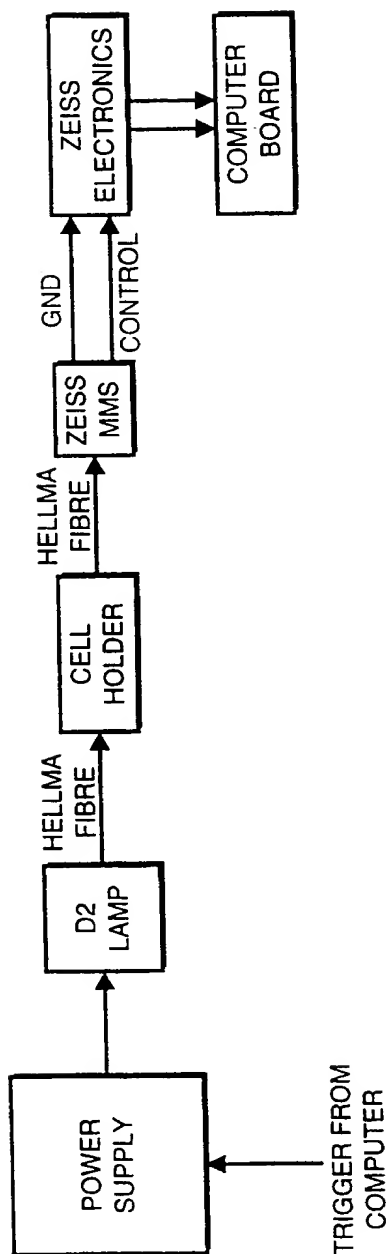
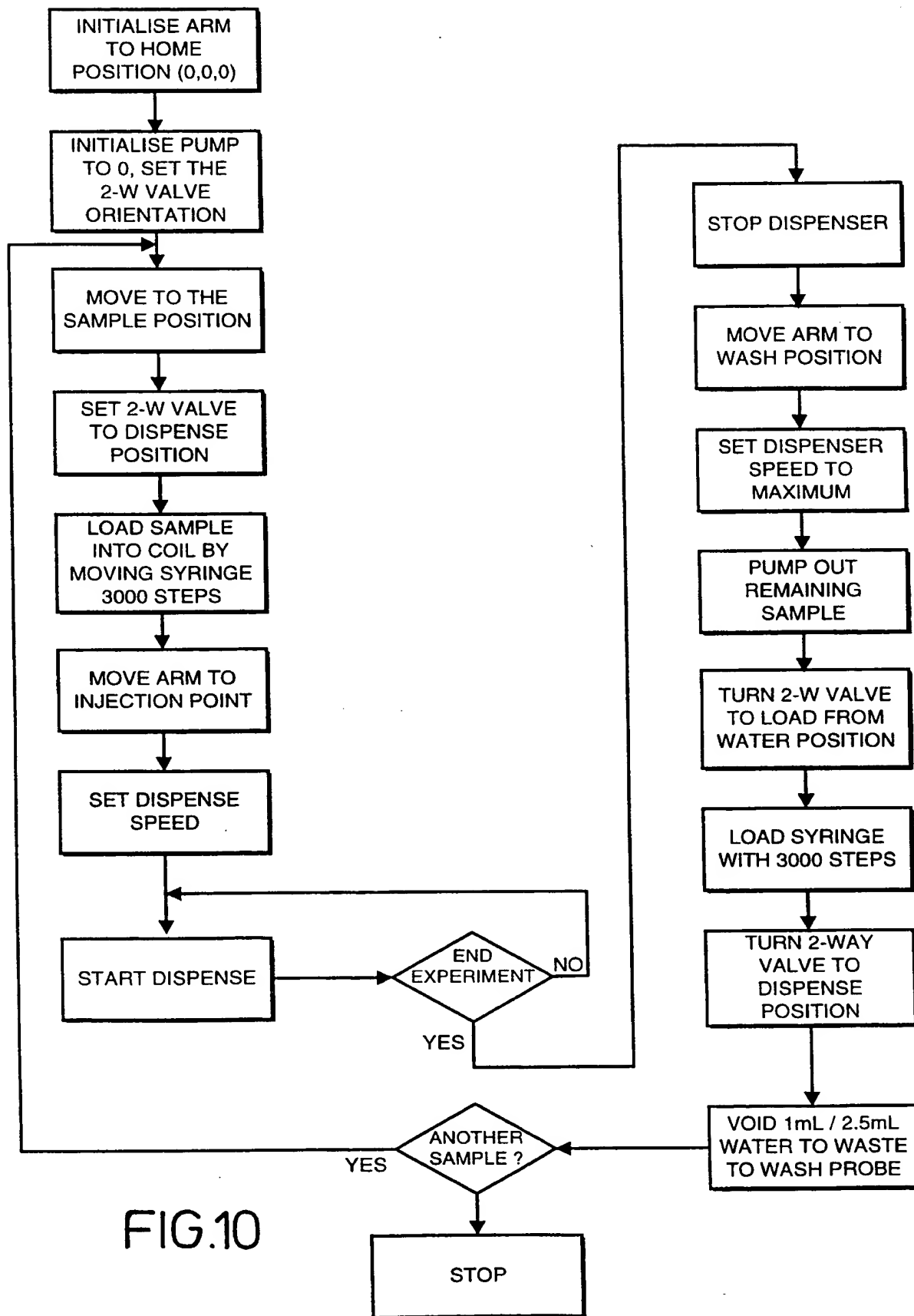
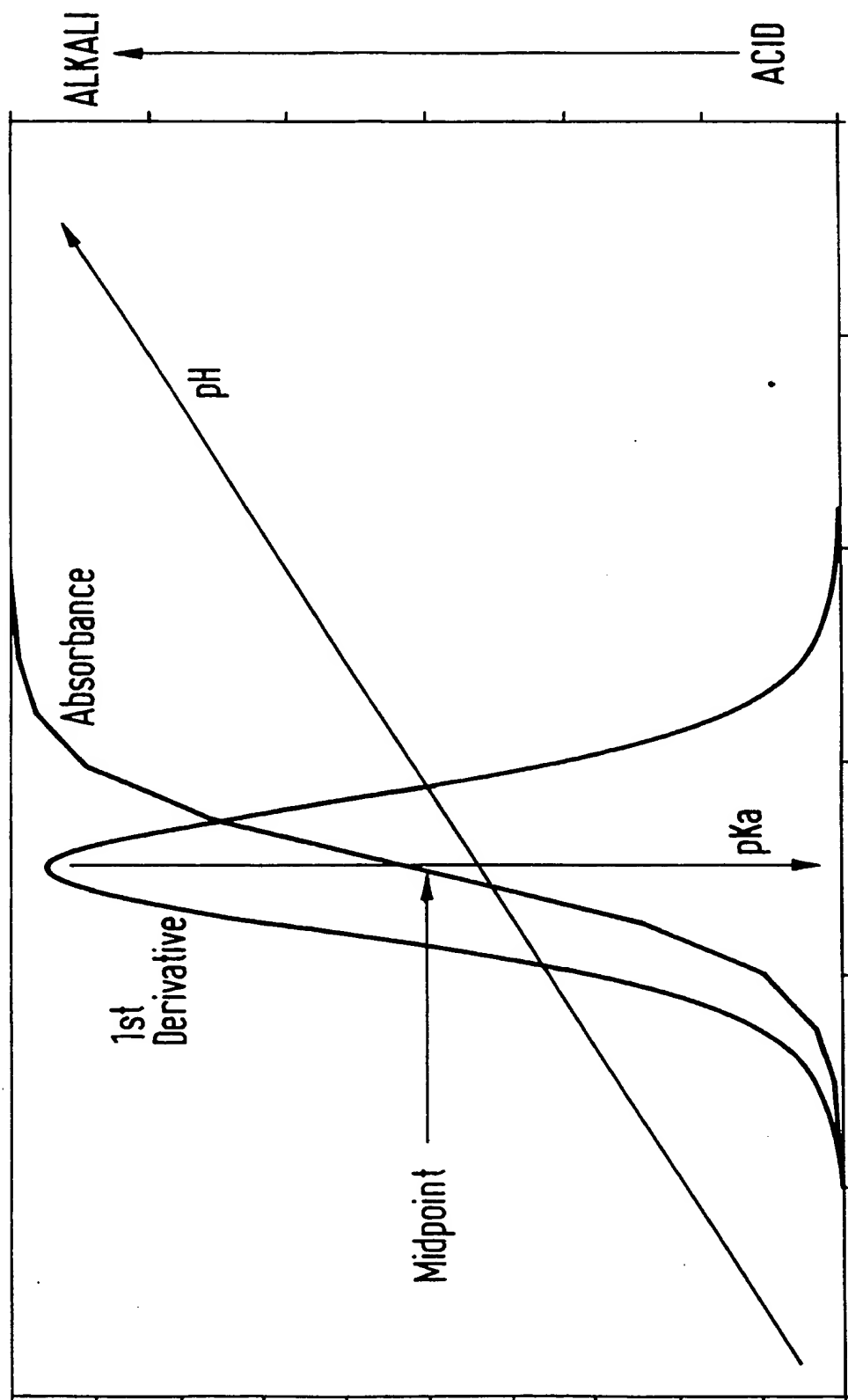


FIG.9

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Time →

FIG.11

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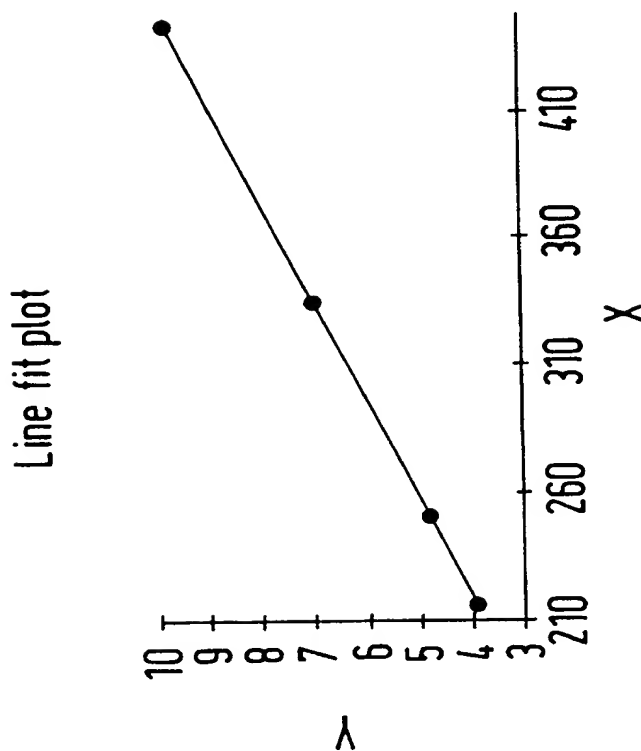
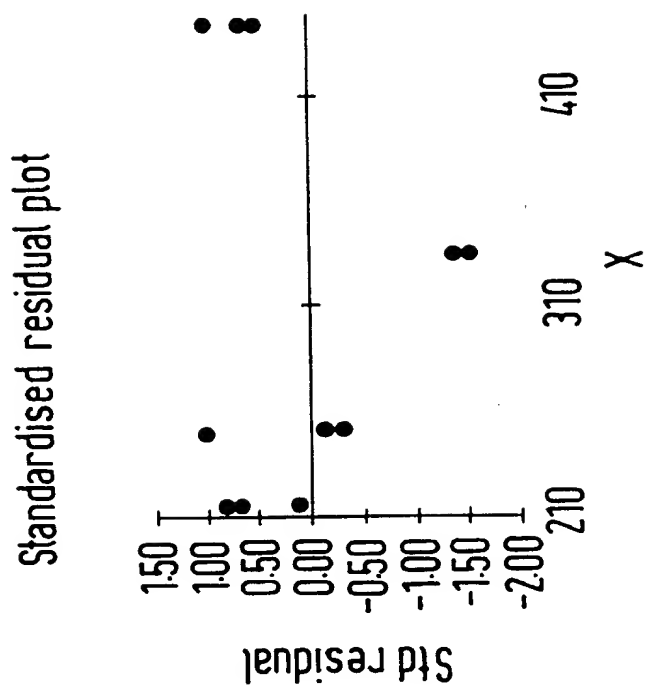


FIG.12

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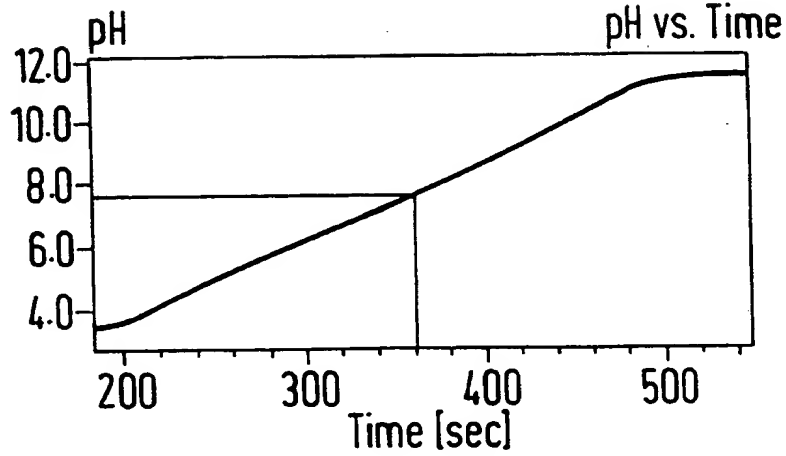


FIG.13

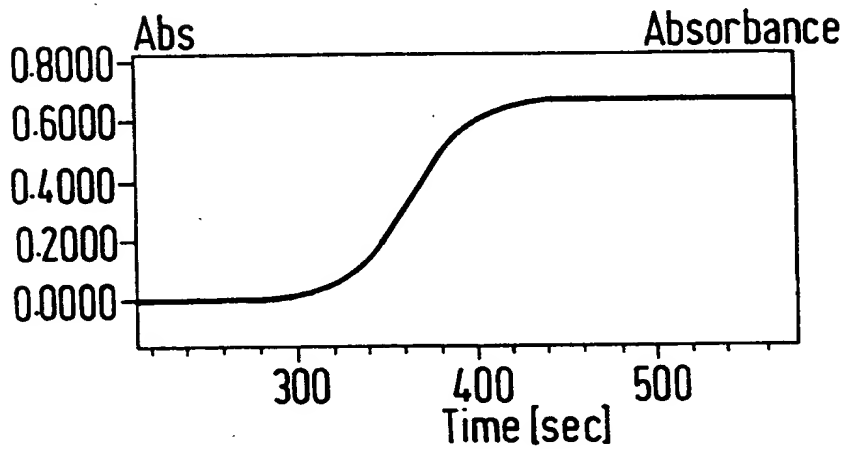
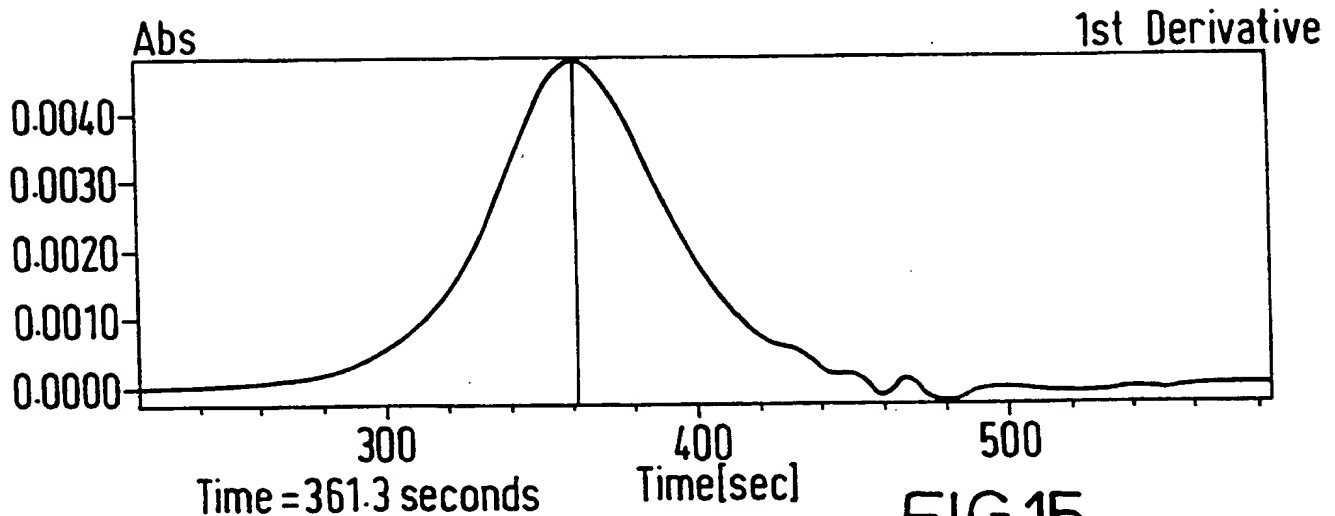


FIG.14



Time = 361.3 seconds

pH = 7.64

SUBSTITUTE SHEET (RULE 26)

FIG.15

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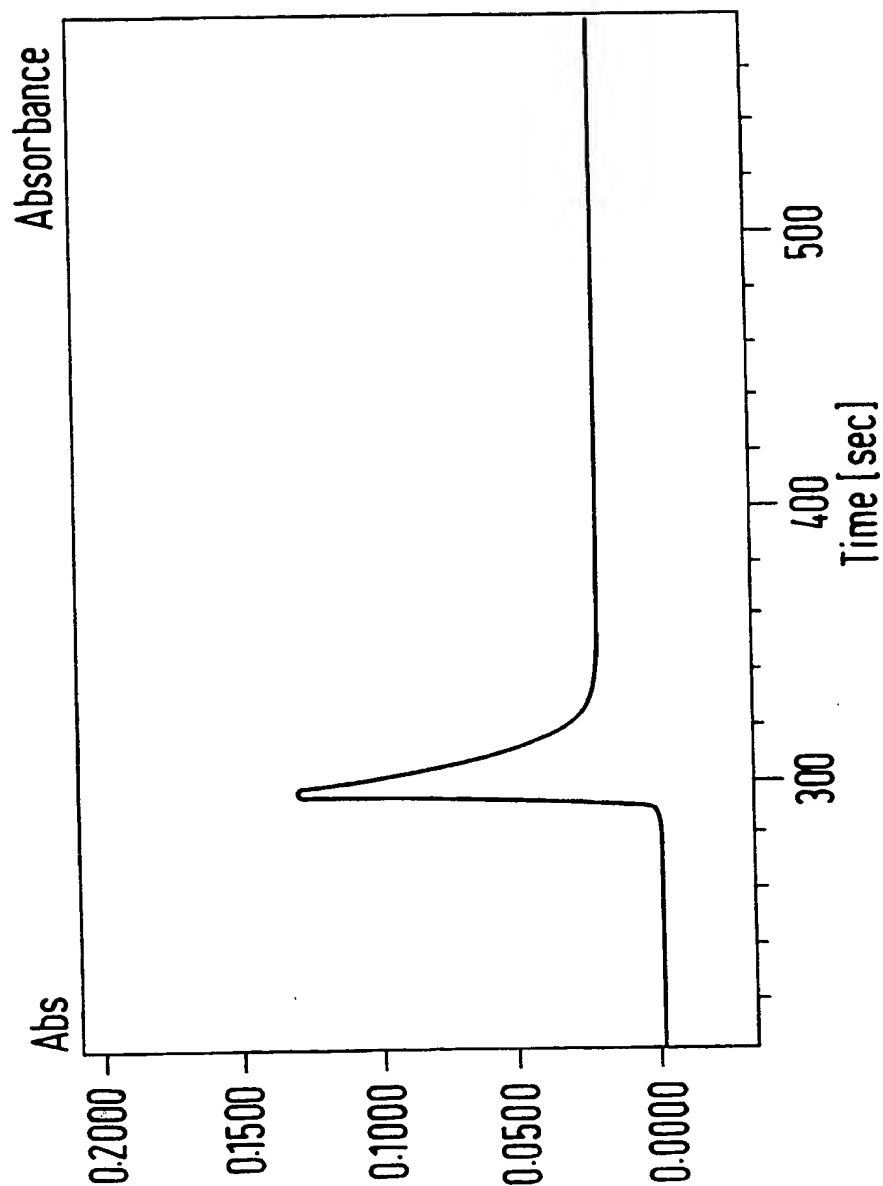


FIG:16 Absorbance curve for an endpoint titration (KHP at 240nm)

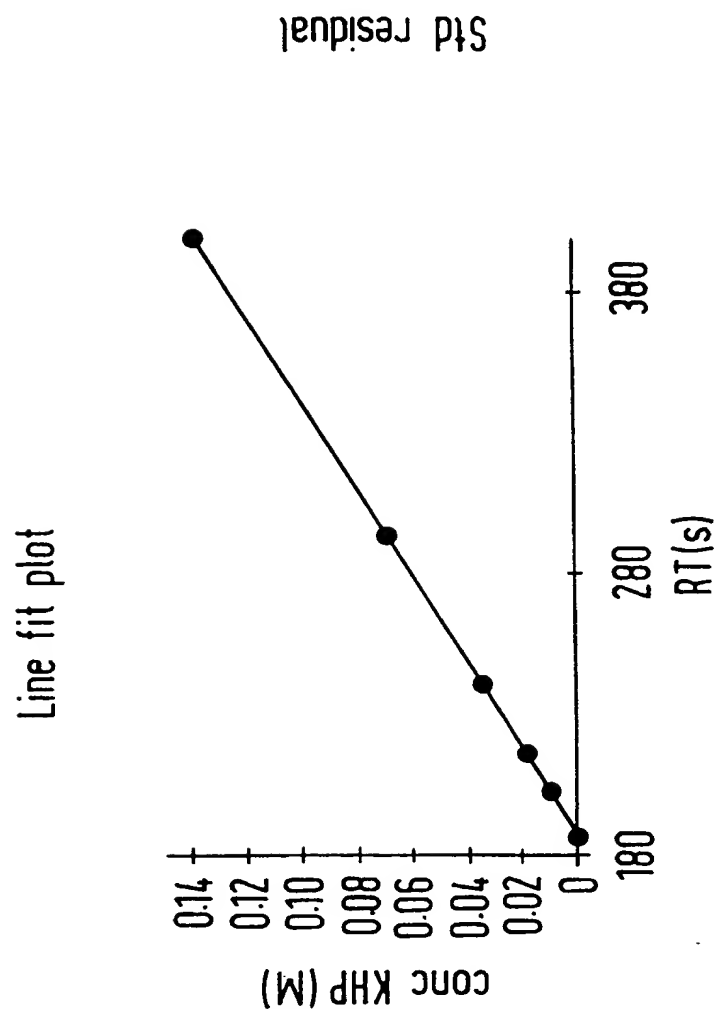
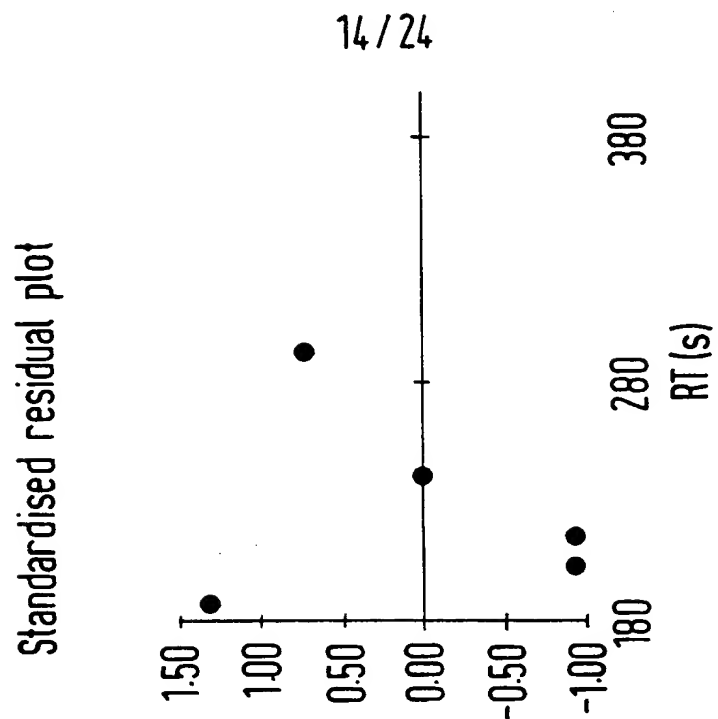


FIG.17

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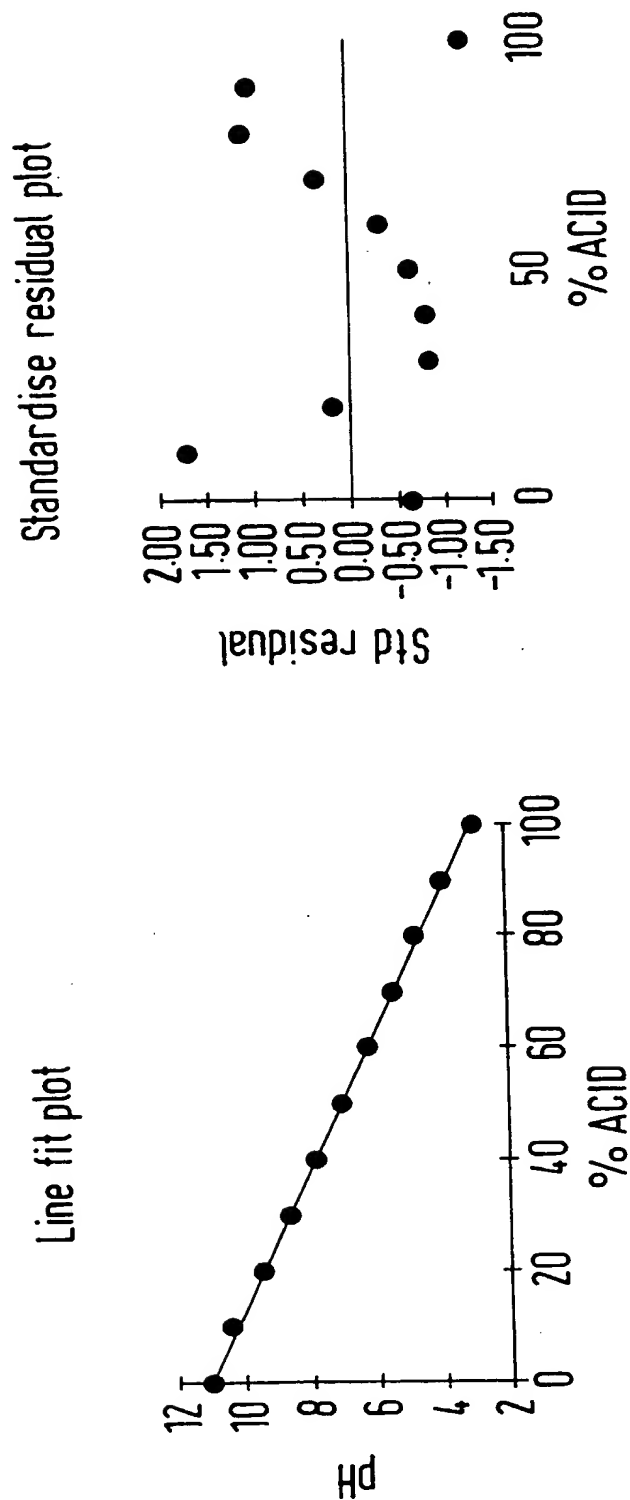


FIG.18

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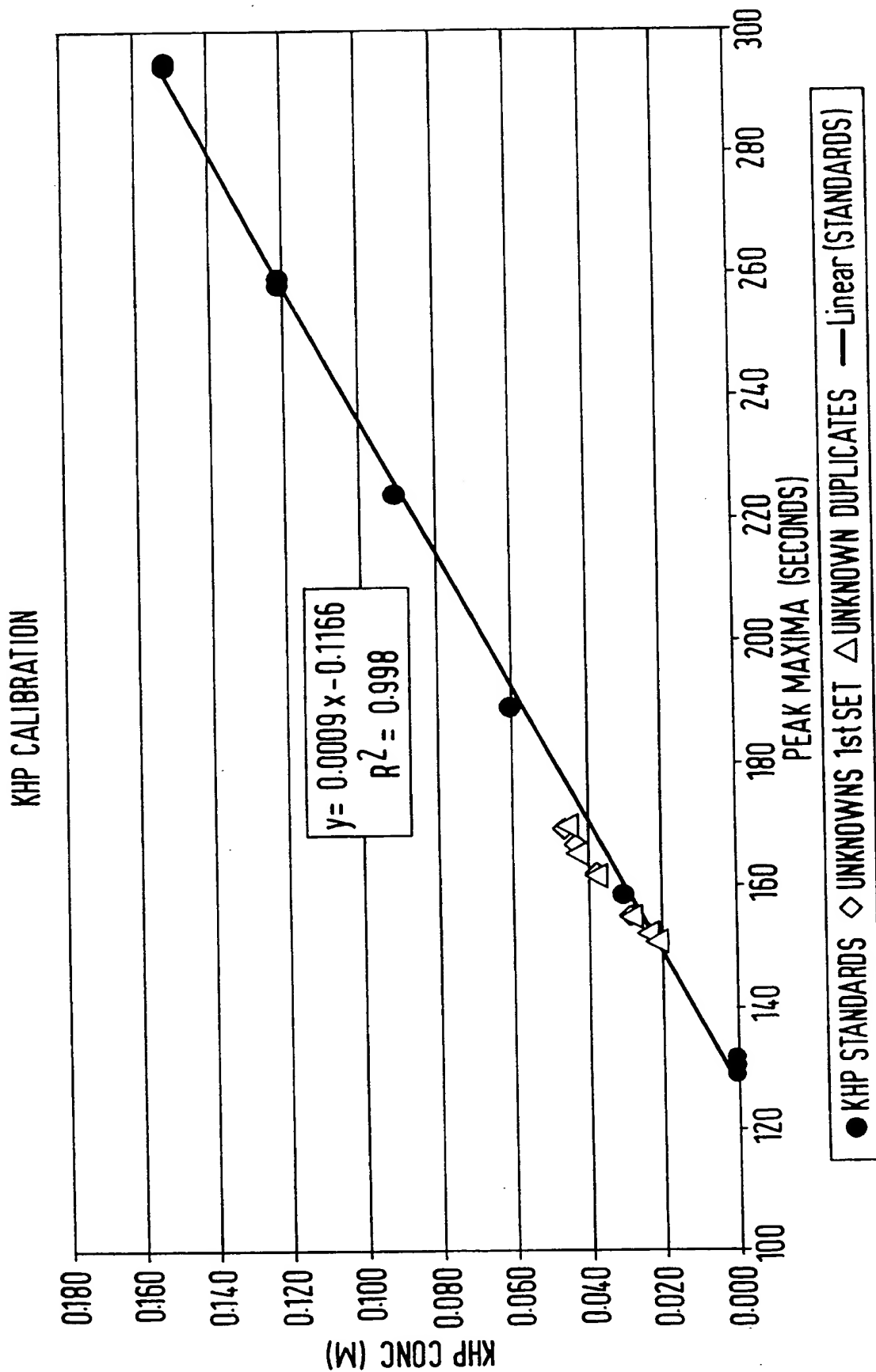


FIG.19

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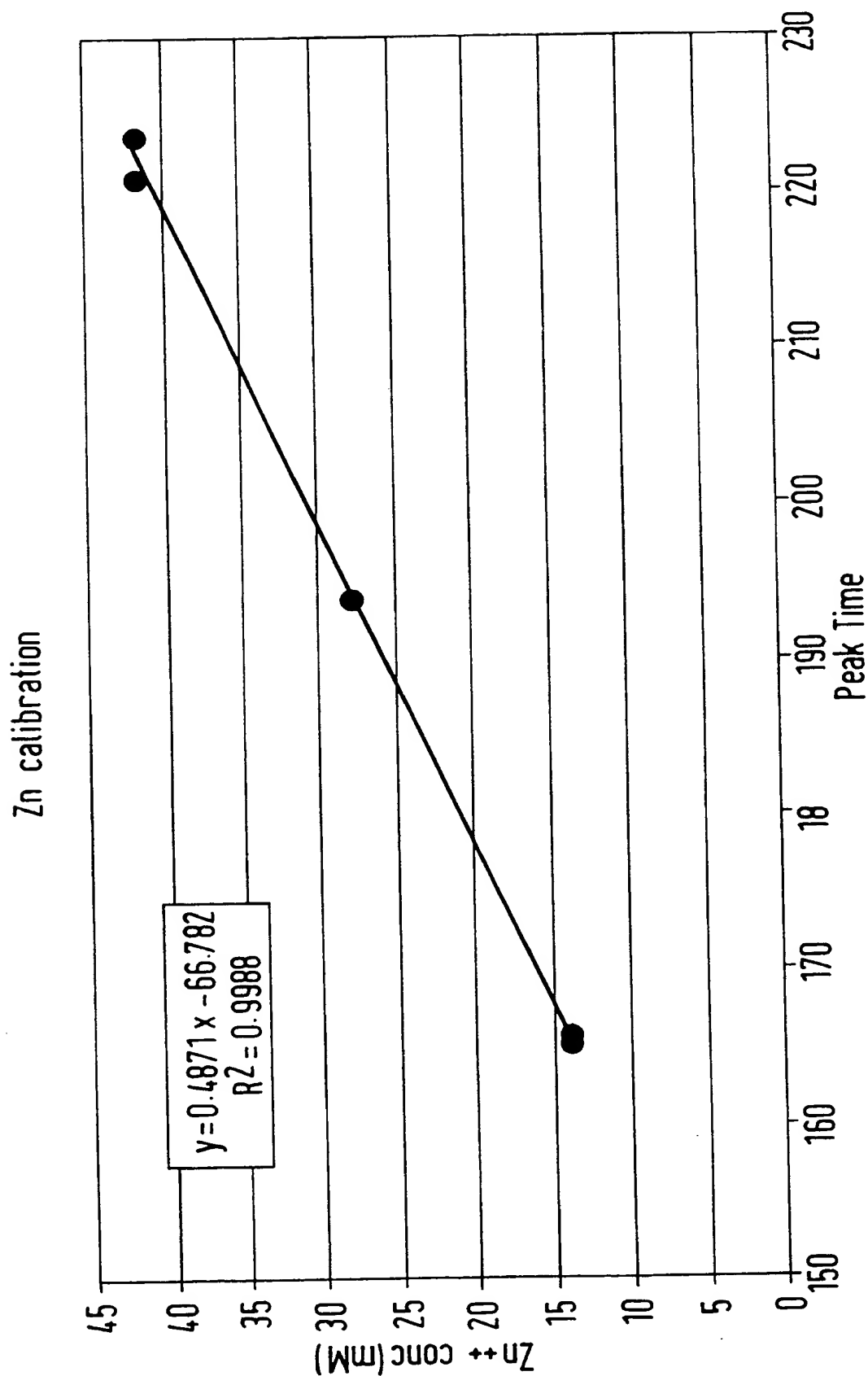


FIG.20

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measured, fitted and 1st derivative of absorbance data

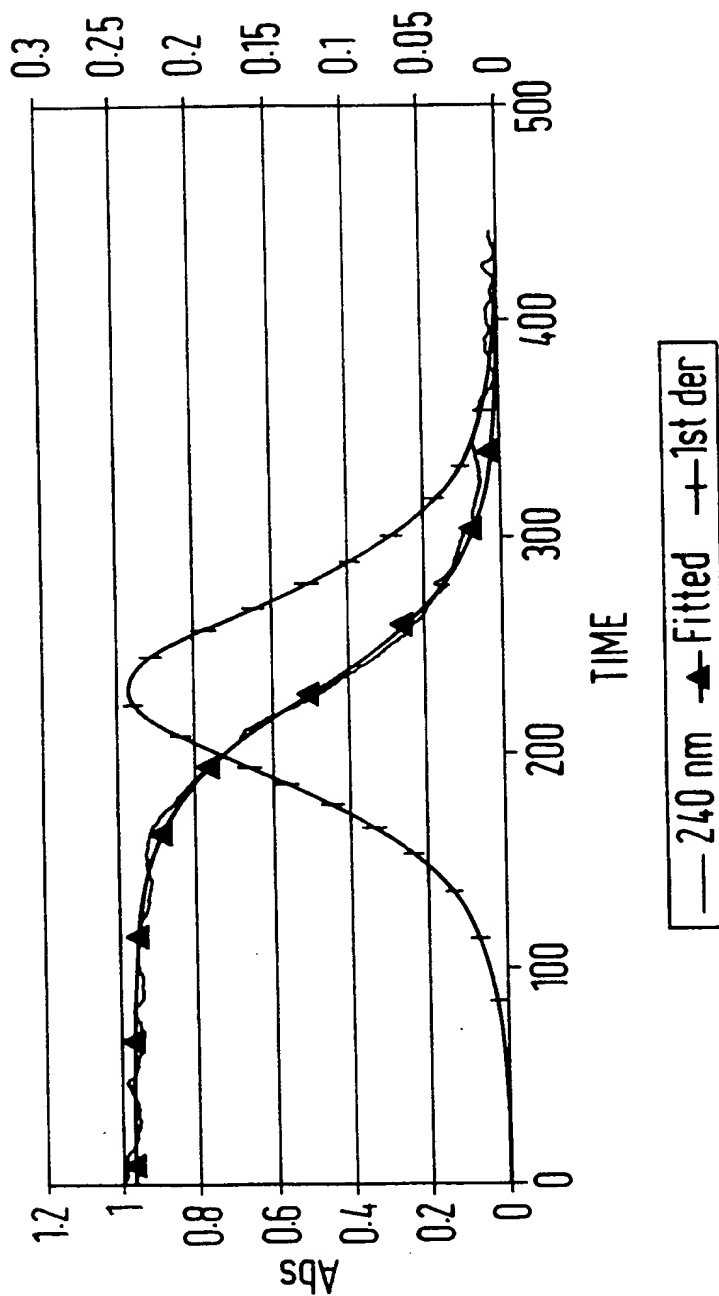


FIG.21

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measured, fitted and 1st derivative of absorbance data

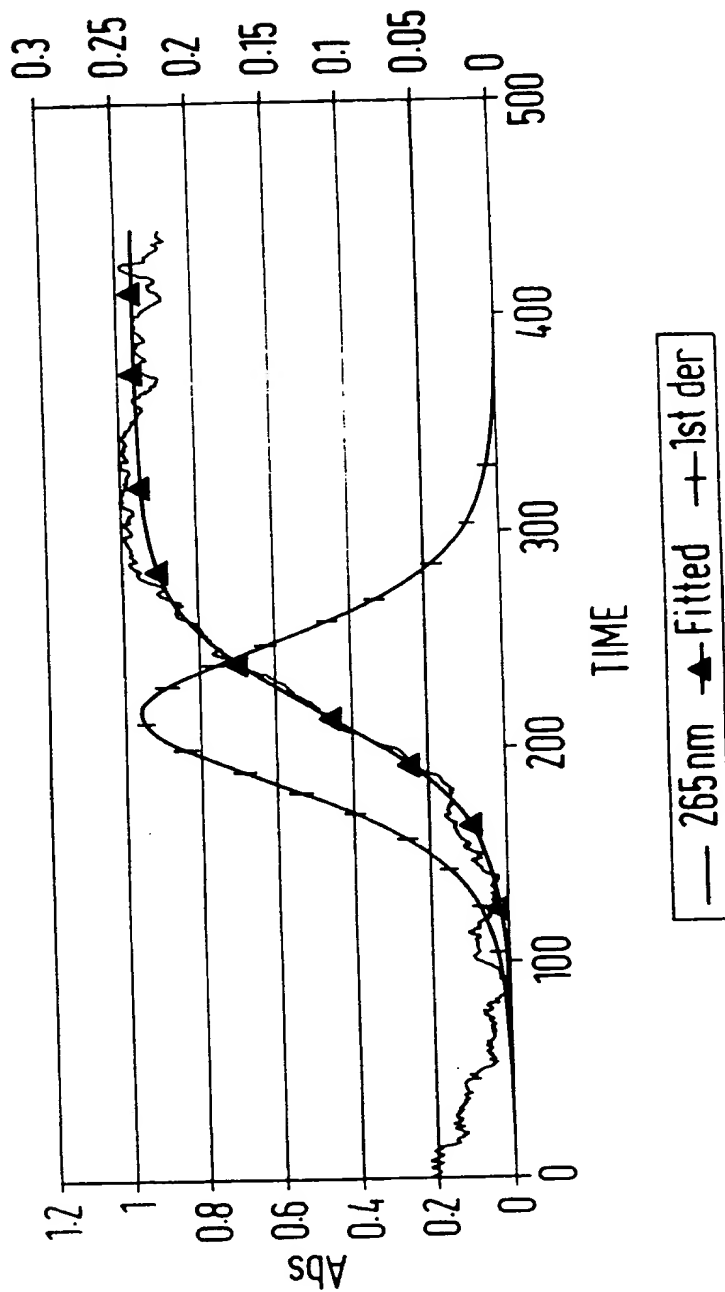


FIG.22

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measured, fitted and 1st derivative of absorbance data

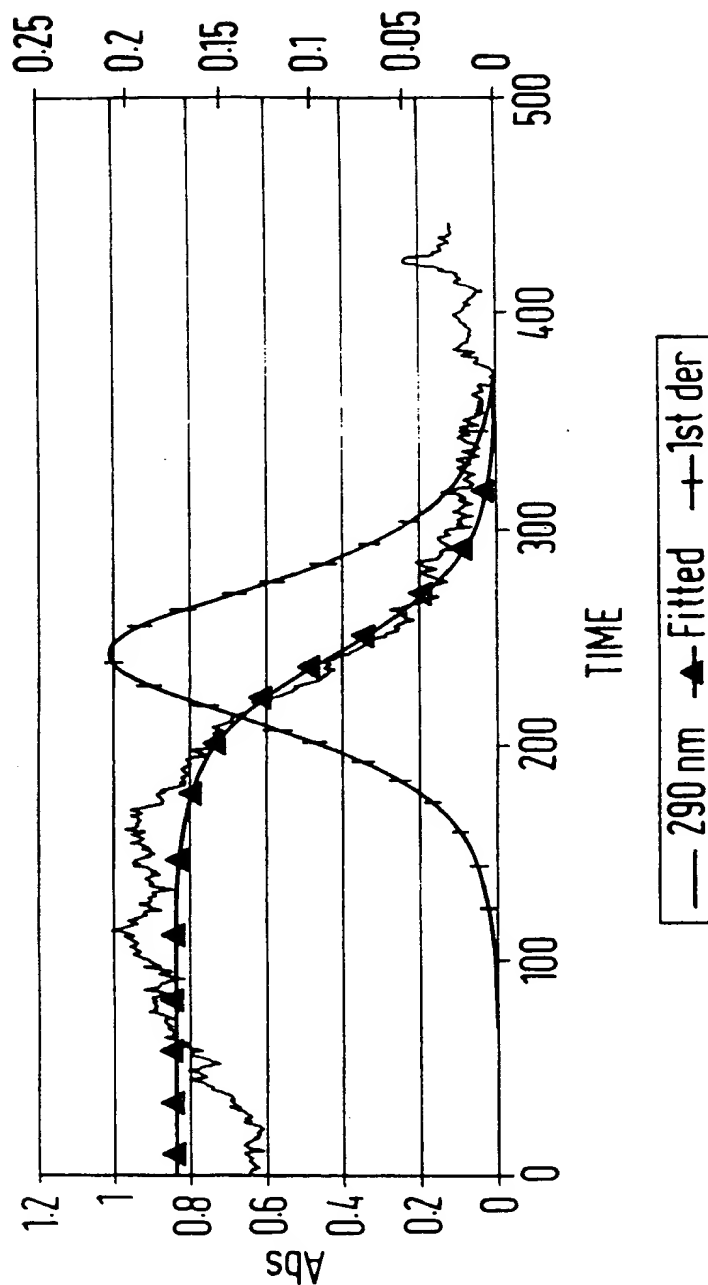


FIG. 23

measured, fitted and 1st derivative of absorbance data

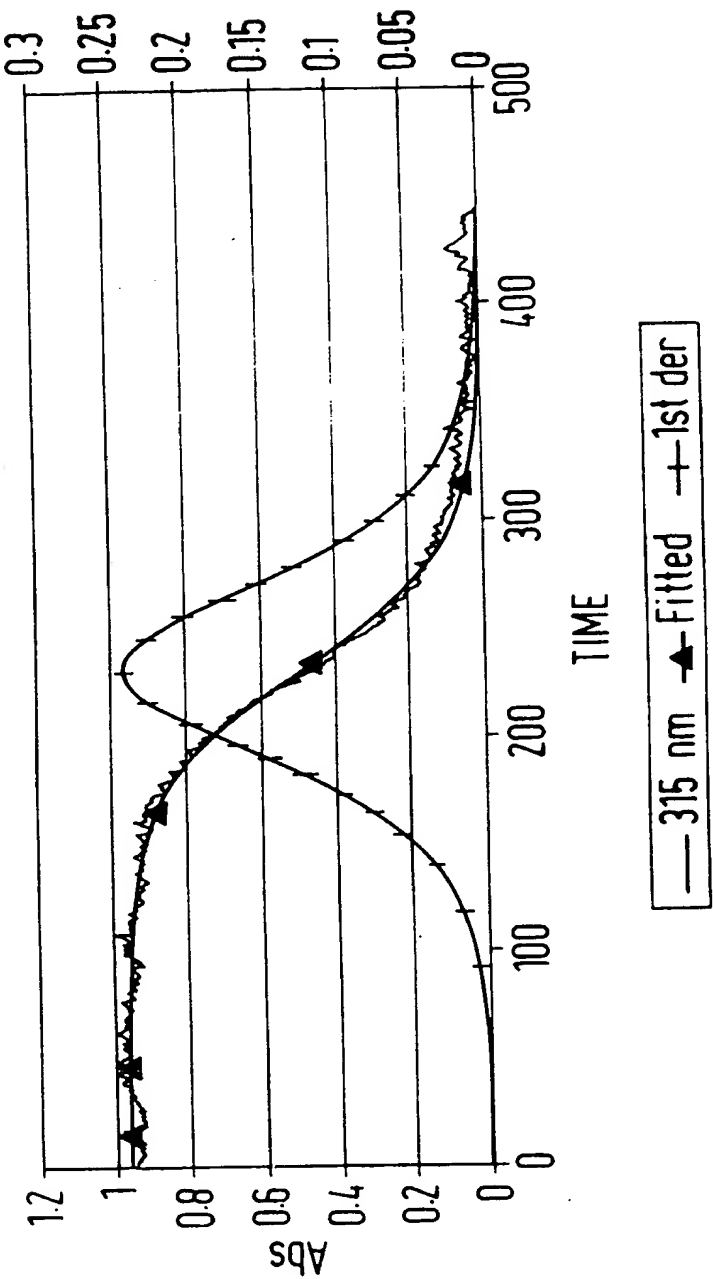


FIG.24

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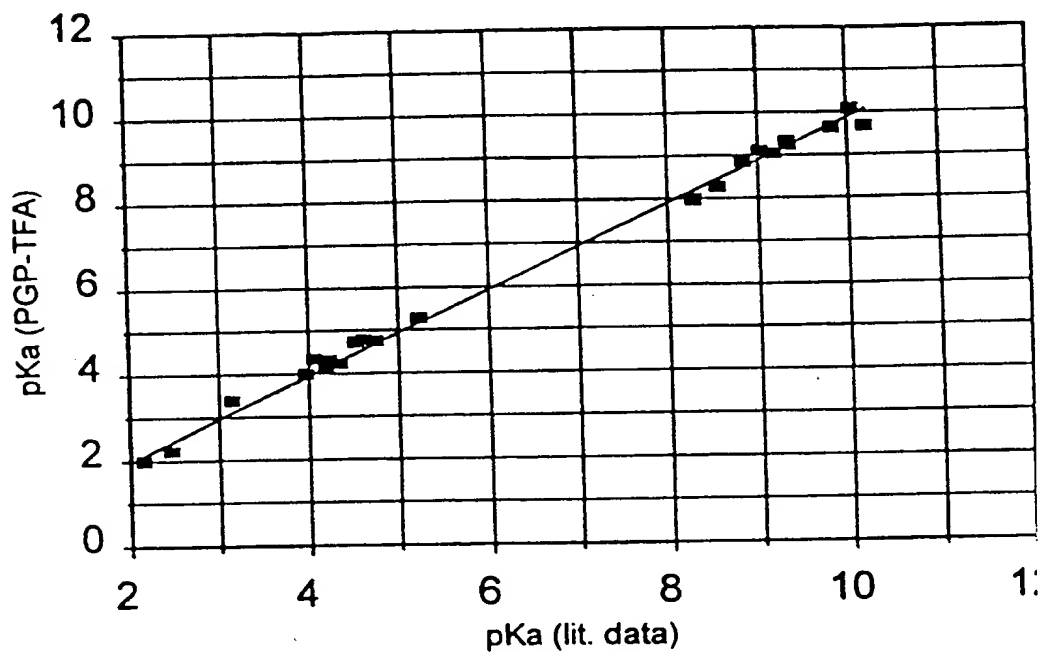
 $R^2 = 0.995$, slope = 0.988, $n = 24$ 

FIG.25

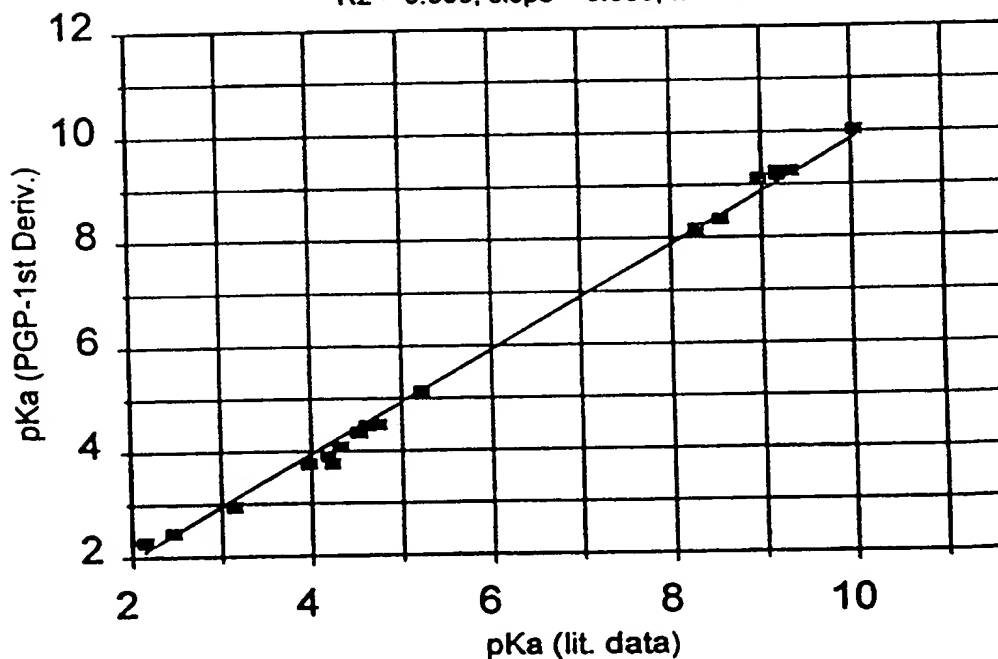
 $R^2 = 0.996$, slope = 0.986, $n = 20$ 

FIG.26

SUBSTITUTE SHEET (RULE 26)

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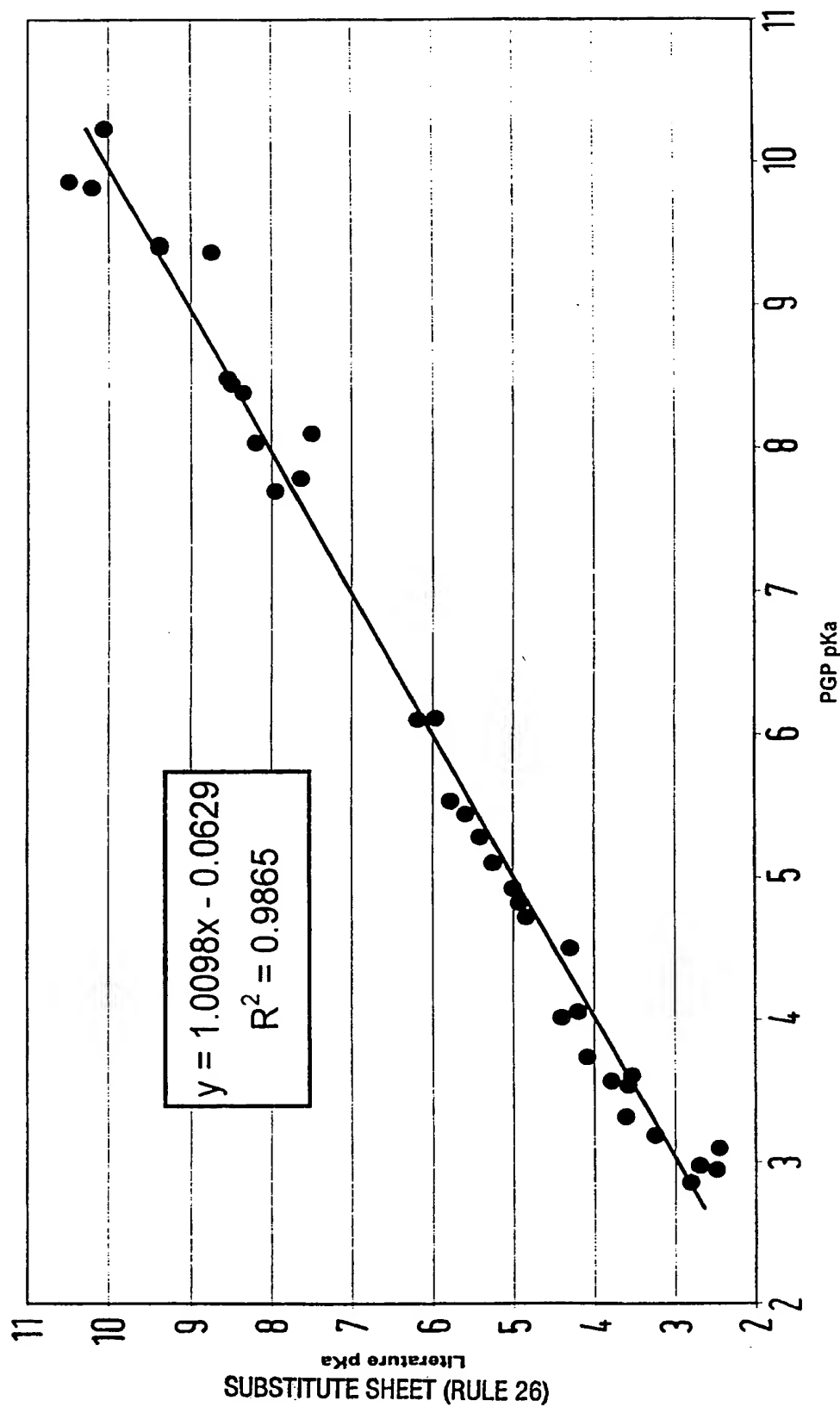


FIG.27

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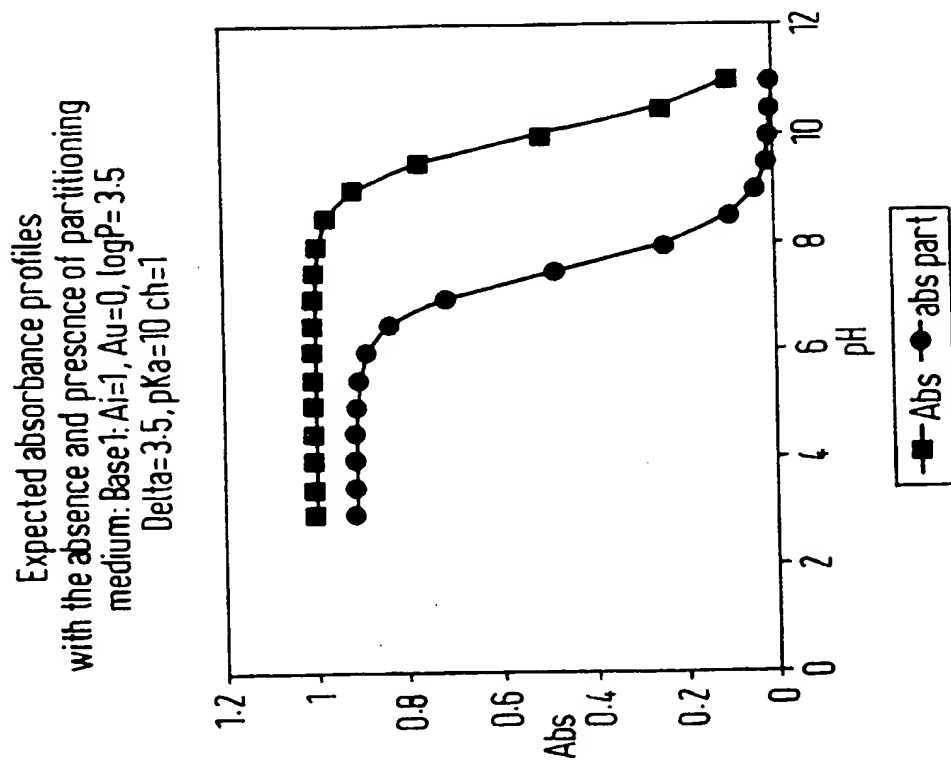


FIG. 29

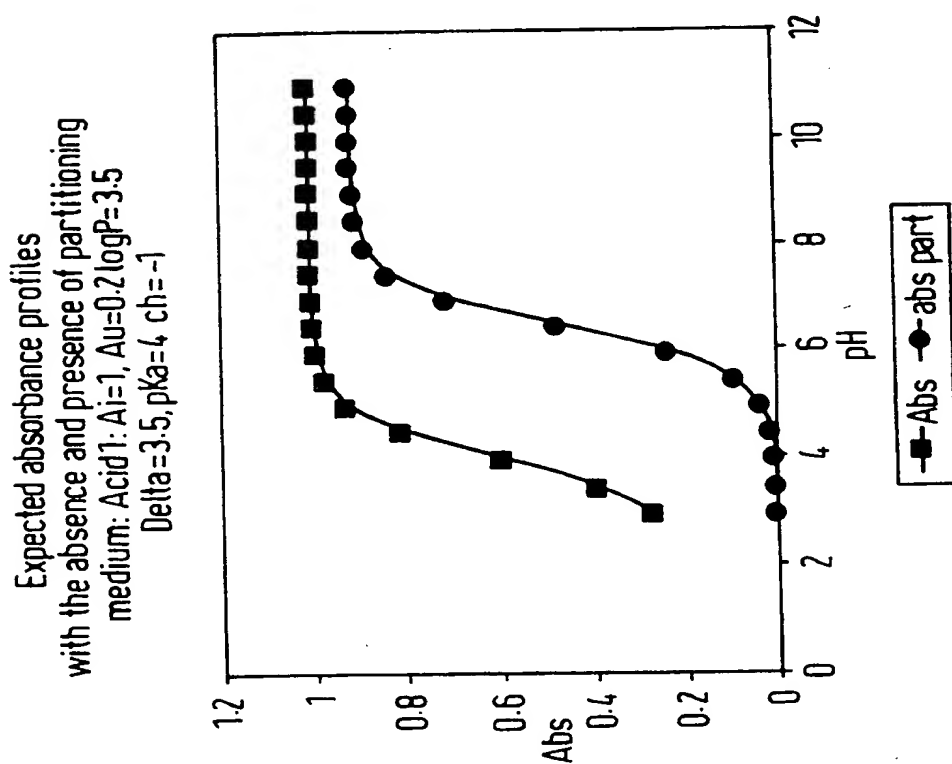


FIG. 28